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Sy

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	\$					

Page

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18

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56 57

O MODULE LIBSSFIND TVT PATH (
O TDENT = '1-006'

BEGIN

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0035 0036 0037

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FACILITY: General Utility Library

ABSTRACT:

This module contains LIB\$\$FIND_CVT_PATH routine which is called only by LIB\$CVT_DX_DX routine. The reason that these two routines are in different modules is because of anticipation of future updates to this data conversion routines. They are very large, and it is easier to update them seperately.

ENVIRONMENT: User mode - AST reentrant

AUTHOR: Farokh Morshed

01-09-1981

MODIFIED BY:

01-09-1981 1-001 - Original. FM1001 1-002 - Put in a check for DSC\$W_LENGTH to be 1 when class A, or NCA, and if class NCA stride must be 1. FM 9-9-81

1-003 - Put in a new data type, DSC\$K_DTYPE_VT. FM 1-DEC-81.
1-004 - Put in a feature where DST_INFO [D_[EN] can be picked up for LIB\$CVT_DX_DX. FM 2-DEC-81.

1-005 - Fix the bug that in [K S NLO, K SD NLO] negative inputs are picked up as positive. FM 1-Mar-83

1-006 - Rémove informational errors. STAN 24-Jul-1984.

F 15 LIB\$\$FIND_CVT_P LIB\$\$FIND_CVT_PATH for internal use of LIB\$CVT 16-Sep-1984 00:54:19 VAX-11 Bliss-32 V4.0-742 1-006 LIBRTL.SRCJLIBFINCVT.B32;1 Page 2 (1) ; 58 0058 1

```
LIB$$FIND_CVT_P LIB$$FIND_CVT_PATH for internal use of LIB$CVT 16-Sep-1984 00:54:19 1-006 Declarations 14-Sep-1984 12:38:50
                                                                                                    VAX-11 Bliss-32 V4.0-742 [LIBRTL.SRC]LIBFINCVT.B32;1
                                                                                                                                             Page
                        1 %SBTTL 'Declarations'
                  0060
    0061
                             SWITCHES:
                  0062
                        1 SWITCHES ADDRESSING_MODE (EXTERNAL = GENERAL, NONEXTERNAL = WORD_RELATIVE);
                  0065
                  0066
0067
                        1 ! LINKAGE
                  0068
                  0069
                        i LINKAGE
1    JSB_R1 = JSB (REGISTER = 0, REGISTER = 1) : PRESERVE (0, 1);
                  0070
                  0071
                  0072
                  0074
                        1 ! TABLE OF CONTENTS:
                  0075
                  0076
                  0077
                          FORWARD ROUTINE
                  0073
                                                                                 ! Rougine to find the conversion
                               LIB$$FIND_CVT_PATH;
                  0079
                  0080
                                                                                  ! being done and report any ! unsupported fields in the descriptors.
                  0081
                  0082
                           ! INCLUDE FILES:
                  0084
                  0085
                  0086
                        1 LIBRARY 'RTLSTARLE';
                                                                                  ! System symbols, from SYS$LIBRARY:STARLET.L32
                  0087
                        1 REQUIRE 'RTLIN: RTLPSECT':
                                                                                  Define PSECT declarations macros
                  0183
                  0184
                  0185
                             PSECTS:
                  0186
                  0187
                           DECLARE_PSECTS (LIB);
                                                                                 ! Declare PSECTs for LIB$ facility
                  0188
                  0189
                             OWN STORAGE:
                  0190
                  0191
                        1 !
                                    NONE
```

```
LIBSSFIND_CVT_P LIBSSFIND_CVT_PATH for internal use of LIBSCVT 16-Sep-1984 00:54:19 1-006 Deterministic Finite Automata for LIBSCVT_DX_DX 14-Sep-1984 12:38:50
                                                                                                           VAX-11 Bliss-32 V4.0-742
[LIBRTL.SRC]LIBFINCVT.B32;1
                                                                                                                                                       Page
                                                                                                                                                             (3)
                   0192
                          1 %SBTTL 'Deterministic Finite Automata for LIB$CVT_DX_DX'
   101
                   0194
   102
                          1 GLOBAL ROUTINE LIBSSFIND_CVT_PATH (
                                                                                          Deterministic Finite Automata
   103
                   0195
                                                                                          that will parse the source
                   0196
0197
   104
                                                                                          and destination descriptors.
   105
                                       SOURCE
                                                                                          Source descriptor that was passed
   106
                   0198
                                                                                          to LIB$CVT_DX_DX.
                                                                                          Destination descriptor that was passed to LIBSCVT DX DX. Address of a record that this
   107
                   0199
                                  , DESTINATION
   108
                   0200
   109
                   0201
                                  , SRC_INFO
                   0202
0203
0204
   110
                                                                                          routine will put the source
   111
                                                                                          information in.
   112
                                  , DST_INFO
                                                                                          Address of a record that this
                   0205
                                                                                          routine will put the destination
                   0206
   114
                                                                                          information in.
                   0207
                                                                                          This code will determine what
   115
                                  , CVT_PATH
   116
                   0208
                                                                                          label of the LIBSCVT DX DX
   117
                   0209
                                                                                          routine's CASE statement will
                   0210
   118
                                                                                          be taken.
                   0211
0212
0213
   119
                                  ) =
   ! FUNCTIONAL DESCRIPTION:
                   0215
                   0216
                                       This routine is comprised of a Deterministic Finite Automaton, defined
                                       as a 5 tuple :
                   0218
                                       STATES
                                                           : There is a state for each CLASS, and CLASS, DATA TYPE
                   combination.
                                                           : Classes and Data types.
                                       Alphabet
                                                           : M(CLASS_S , DTYPE_B) := CLASS_S_DTYPE_B
                                       Mappings
                                                             M(CLASS_D ; DTYPE_W) := error
                                       Start state
                                       final states
                                                           : All possible combinations of CLASS, DTYPE.
                                                             Some of these combinations are allowed, others
                                                             are not. The error combinations are denoted by
                                                             negative numbers as states.
   140
141
142
143
144
                               MAINTENANCE OF THIS ROUTINE :
                             !This routine knows about all classes and data types of Appendix C V8.3.
                              (You may want to update the above line everytime a change is made)
                              !To make an already existing CLASS, DATA TYPE combination a valid one, as
    146
                              !opposed to an error you must :
   147
                                       1. Insert the symbol for that data type in DTYPE_TABLE in place of the
   148
                                           error state.
   149
                                       2. Define a FINAL_STATE for this combination. 3. Give it an action routine.
   150
151
152
153
154
155
                             To add a new data type you must:

1. Increment K MAX_DATA_TYPES.

2. Set K_MAX_DTYPE_STA to value of the new data type.

3. Does any of the following need to be changed?
   156
                                                 a. K_SMLFINSTA
```

```
15
LIB$$FIND_CVT_P LIB$$FIND_CVT_PATH for internal use of LIB$CVT 16-Sep-1984 00:54:19 1-006 Deterministic Finite Automata for LIB$CVT_DX_DX 14-Sep-1984 12:38:50
                                                                                                                   VAX-11 Bliss-32 V4.0-742
                                                                                                                                                                  Page
                                                                                                                   [LIBRTL.SRC]LIBFINCVT.B32:1
                    0249
0250
0251
0252
0253
                                                   b. K_LRGFINSTA
c. K_TOP_SD
d. K_BOTTOM_SD
   158
   159

    Define a new FINAL STATE.
    Each category in DTYPE TABLE must have a new entry for the data type.
    Note that the position (starting at 0) of each entry in each category is equivalent

   160
   161
   162
163
                     0255
                                              to the data type value.
                    0256
0257
                                         6. Add the new lable into the action routines CASE statement and
    164
                                              the sub-CASE statements in LIB$CVT_DX_DX will need to be modified to
    165
                    0258
0259
    166
                                              include this new data type.
    167
                    0261
0261
0263
0263
    168
                               !To add a new class you must :
   169
170
171

    Increment K_MAX_CLASSES
    Set K_MAX_CLASS_STA to value of the new class.

                                         3. Increment K ACTUAL CLASSES.
4. Make a new K_STATEX_CLASS_y, where x is class value and y is the
   172
   173
                     0265
                                             symbol of the class
   174
                    0266
                                         5. Make a new FINAL_STATE.
   175
                     0267
                                         6. Add a new category to the STATES structure at the end, with a index
                     0268
   176
                                              value of one higher than the last category.
   177
                    0269
                                         7. Make a new entry in CLASS_TABLE.
   178
                     0270
                                         8. Make a new category in DTYPE_TABLE.
   179
                    0271
                                         9. Make a new lable in the action routine CASE statement.
                    0272
0273
   180
   181
   182
                    0274
                            1
                                 CALLING SEQUENCE:
   183
                    0275
                            1
   184
                    0276
                                         ret_status.wlc.v = FIND_CVT_PATH ( SOURCE.rx.dx,
                    0277
                                                                                 DESTINATION.rx.dx.
   186
                    0278
                                                                                 SRC_INFO.wr.r,
   187
                    0279
                                                                                 DST_INFO.wr.r,
   188
189
                    0280
                                                                                 CVT_PATH.wlu.r )
                    0281
   190
191
192
193
194
195
                    0282
0283
                                 FORMAL PARAMETERS:
                            1
                    0284
                                         SOURCE
                                                              Address of source descriptor passed to LIB$CVT_DX_DX.
                    0285
                                         DESTINATION
                                                              Address of destination descriptor passed to LIB$CVT_DX_DX.
                    0286
                                         SRC_INFO
DST_INFO
                                                              Address of a record in LIB$CVT_DX_DX.
                     0287
                                                              Address of a record in LIB$CVT_DX_DX.
   196
197
                     0288
                                         CVT_PATH
                                                              Address of a longword in LIB$CVT DX DX.
                     0289
   0290
                                  IMPLICIT INPUTS:
                     0291
                    0292
0293
                                         NONE
                     0294
                                  IMPLICIT OUTPUTS:
                     0295
                    0296
0297
                                         NONE
                     0298
                                  COMPLETION STATUS: (or ROUTINE VALUE:)
                    0299
0300
                                         K_UNSCLAROU
K_UNSDTYROU
K_UNSDESROU
K_UNSDESSTA
                                                                         : -1 Unsupported CLASS by routine.
                                                                         : -2 Unsupported DTYPE by routine.
: -3 Unsupported descriptor by routine.
                     0301
                    0302
                                                                         : -4 Unsupported descriptor by standard.
: -5 Unsupported CLASS by standard.
                     0304
                                            UNSCLASTA
                     0305
                                          K_UNSDTYSTA
                                                                         : -6 Unsupported DTYPE by standard.
```

```
LIBSSFIND_CVT_P LIBSSFIND_CVT_PATH for internal use of LIBSCVT 16-Sep-1984 00:54:19 1-006 Deterministic Finite Automata for LIBSCVT_DX_DX 14-Sep-1984 12:38:50
                                                                                                                                VAX-11 Bliss-32 V4.0-742
[LIBRTL.SRC]LIBFINCVT.B32;1
                                                                                                                                                                                    Page
                                                                                                                                                                                           (3)
                       0306
0307
                                               K_INVNBDS
    : -7 Invalid NBDS because array size is greater
                               1 !
                                                                                         than WU or dimension is not one.
                       0308
                                1 !
                                               K_SUPPORTED
                                                                                  : 1 This descriptor is supported.
                       0309
                               1
                       0310
                               1
                                      SIDE EFFECTS:
                       0311
                       0312
0313
                                               Caller of LIB$CVT_DX_DX must have LIB$EMULATE as a handler, if the
                                               source or destination descriptor explicitely ask for G, H, O conversions.
                       0314
                               1 !
                               1 !--
                       0316
0317
0318
0319
                                         BEGIN
                                         BUILTIN
                       0320
0321
0322
0323
                                              CVTTP.
                                              CVTSP,
                                               CVTPT.
                                               CVTPS,
                       0324
                                               CMPP:
                       0325
0326
                    0326
0327
0328
03329
03331
03332
03334
03336
03337
03339
m
                                     MACRO
                                   !<BLF/MACRO>
                                         MACRO
                                     These MACROs are used for clarity of code, since there is not builtin for them.
                                              CVTGH =
                                                    LIB$$CVT_CVTGH_R1 %,
                                   ! These MACROs define portions of intermediate data buffer.
                                              LONG 1 =
LONG 2 =
LONG 3 =
LONG 3 =
LONG 4 =
T2, 0, 32, 0 x,
LONG 5 =
LONG 6 =
                    M 0340
                       0341
                    M 0342
0343
                    M 0344
                       0345
                    M 0346
                       0347
                      0348
                       0349
                                              LONG C = 20. 0. 32. 0 %. LONG 7 = 24. 0. 32. 0 %.
                       0350
                       0351
                       0352
                       0353
                       0354
                                              LONG 8 = 28, (
                                                          0. 32. 0 %.
                       0355
                                              S_LONG_1 = 0.0, 32, 1 %, S_LONG_2 = 4.0, 32, 1 %, S_BYTE_1 = 0.0, 8, 1 %,
                       0356
                       0357
                       0358
                       0359
                       0360
                                              BYTE_1 =
                       0361
                    M 0362
```

```
LIB$$FIND_CVT_P LIB$$FIND_CVT_PATH for internal use of LIB$CVT 16-Sep-1984 00:54:19 1-006 Deterministic Finite Automata for LIB$CVT_DX_DX 14-Sep-1984 12:38:50
                                                                                                                    VAX-11 Bliss-32 V4.0-742 [LIBRTL.SRC]LIBFINCVT.B32:1
                                                                                                                                                                    Page
                                         BYTE 2
   0, 8, 0 %,
                                                   Q. 8. 0 %.
                                         S_WORD_1 = 0, 16, 1 x, WORD_2 = 0, 16, 0 x, NIBBLE_1 = 0, 0, 4, 0 x,
                               ! This MACRO calculates final states given the state and the token.
                                          FINAL_STATE (CLASS, DATA_TYPE) = CEASS*K_MAX_DATA_TYPES + DATA_TYPE %,
                     0378
0379
                                ! This macro is used for SRC_INFO or DST_INFO scale field.
                                          M_SCALE = 0, 0, 8, 1 %,
                               This macro is used for SRC_INFO or DST_INFO length field.
                                          M_LEN = 5, 0, 16, 0 %,
                     0388
                     0389
                     0390
                                  Define the start state data structure of the DFA.
                     0391
                                          START STATE =
                     0393
                                               VECTOR [K_MAX_CLASSES, BYTE, SIGNED] %;
                     0394
                               ! EXTERNAL
                     0397
                     0398
                     0399
                                     EXTERNAL ROUTINE
                                          LIBSSTOP : NOVALUE,
                                          CVTGH : JSB_R1 NOVALUE;
   312
                               ! These are the translation tables used when translating from or to packed decimal.
   313
314
   315
                     0407
                                     EXTERNAL
                                          LIBSAB_CVTTP_U,
LIBSAB_CVT_U_U,
LIBSAB_CVTTP_O,
LIBSAB_CVT_U_O,
   316
                     0408
   317
                     0409
   318
319
320
321
323
323
324
326
327
                     0410
                     0411
                     0412
0413
0414
                                          LIB$AB_CVTPT_U,
                                          LIBSAB_CVTPT_O,
                                          LIBSAB_CVTPT_Z.
                     0415
                                          LIBSAB_CVTTP_Z;
                     0416
                     0417
                                     EXTERNAL LITERAL
                                                                                                ! Condition value symbols
                     0418
0419
                                          LIBS FATERRLIB;
                                                                                               ! fatal error in library.
```

```
04223456789012345678
0442226789012345678
0442226789012345678
```

0474

0475

K_ACTUAL_CLASSES = 6.

```
FIELD DECLARATIONS
                        FIELD
                                       SRC_INFO_FIELDS =
                                                    S_SCALE = [0, 0, 8, 1],
S_POINTER = [1, 0, 32, 0],
S_LEN = [5, 0, 16, 0],
S_SIGN = [7, 0, 1, 0]
TES:
                        FIELD
                                       DST_INFO_FIELDS =
                                                     D_SCALE = [0, 0, 8, 1],
D_LEN = [5, 0, 16, 0]
                Define some literals.
  LITERAL
2 !+
2 !Status returned by FIND_CVT_PATH.
2 ...
                                                                                                                                                                                              Unsupported CLASS by routine. Unsupported DATA TYPE by routine.
                                       K_{unsclarou} = -1
                                       K_UNSDTYROU = -2,
K_UNSDESROU = -3,
                                                                                                                                                                                             Unsupported descriptor by routine.
Unsupported descriptor by standard.
Unsupported CLASS by standard.
Unsupported DTYPE by standard
Invalid NBDS
K_UNSDESROU = -
K_UNSDESSTA = -
K_UNSCLASTA = 
                                       K_UNSDESSTA = -4,
                                       K_{unsclasta} = -5,
                                       K_{UNSDTYSTA} = -6.
                                       K_{INVNBDS} = -7
                                                                                                                                                                                               because either array size is larger
                                                                                                                                                                                               than a WU or it is not a one
                                                                                                                                                                                         ! dimensional array.
! This descriptor is supported, and valid.
                                       K_SUPPORTED = 1,
                                       K_INTMED_DATA_LENGTH = 32,
K_LRGST_QU = 65535,
                                                                                                                                                                                         ! Intermediate data buffer length
                                       K_LRGST_LU = 4294967295
                                                                                                                                                                                              Largest unsigned longword.
                                     K_LRGST_NEG_L = -2147483648,
K_LRGCLSSUP = DSC$K_CLASS_VS,
K_SMLCLSSUP = DSC$K_CLASS_S,
K_MAX_DATA_TYPES = 38,
                                                                                                                                                                                              Largest negative longword.
                                                                                                                                                                                              Largest CLASS supported by routine
                                                                                                                                                                                           Smallest CLASS supported by routine Total number of DATA TYPES in the standard
                                        K_MAX_CLASSES = 15,
                                                                                                                                                                                          !Total number of classes supported,
                                                                                                                                                                                          !Including the error case O.
                                      K_MIN_CLASS = DSC$K_CLASS_S,
K_MAX_CLASS = DSC$K_CLASS_V$,
K_MAX_CLASS_STA = DSC$K_CLASS_UBA,
K_MAX_DTYPE_STA = DSC$K_DTYPE_VT,
                                                                                                                                                                                           !Smalles člass supported.
                                                                                                                                                                                          Largest class supported.
                                                                                                                                                                                          !Max. class number supported by standard.
                                                                                                                                                                                         !Hax. data type number supported by standard. !Total classes that are allowed by the STATES table.
```

```
M 15
LIB$$FIND_CVT_P LIB$$FIND_CVT_PATH for internal use of LIB$CVT 16-Sep-1984 00:54:19 1-006 Deterministic Finite Automata for LIB$CVT_DX_DX 14-Sep-1984 12:38:50
                                                                                                                                                                                                                                                                                                                        VAX-11 Bliss-32 V4.0-742 [LIBRTL.SRC]LIBFINCVT.B32;1
                                                                                                                                                                                                                                                                                                                                                                                                                                                       Page
           385
386
                                                                                                                 Smallest final state supported.
           387
                                                          0479
                                                                                                                                                                                                                                                                                                                                                      !Largest final state supported.
           388
                                                         0480
           389
                                                         0481
                                                                                                                                                                                                                                                                                                                                                     !Bottom state for class SD.
          390
391
392
393
                                                        0482
0483
                                                                                    !These are the values of the members of K_ACTUAL_CLASSES :
                                                         0484
                                                                                                                 K_STATE1_CLASS_S = DSC$K_CLASS_S,
K_STATE2_CLASS_D = DSC$K_CLASS_D,
K_STATE4_CLASS_A = DSC$K_CLASS_A
K_STATE9_CLASS_SD = DSC$K_CLASS_SD,
K_STATE10_CLASS_NCA = DSC$K_CLASS_NCA,
                                                         0485
                                                        0486
0487
           394
           395
           396
                                                         0488
           397
                                                         0489
           398
                                                         0490
                                                                                                                  K_STATE11_CLASS_VS = DSC$K_CLASS_VS,
           399
                                                         0491
                                                        400
                                                                                     !These are the final states that are valid CLASS, DATA TYPE combinations.
           401
                                                                                     !The rest of the final states are error states.
                                                                                                             ITST argument to the macro is CLASS, and the second is the D

K.S.BU = FINAL_STATE (DSCSK_CLASS_S, DSCSK_DTYPE_BU),
K.S.BU = FINAL_STATE (DSCSK_CLASS_S, DSCSK_DTYPE_BU),
K.S.BU = FINAL_STATE (DSCSK_CLASS_S, DSCSK_DTYPE_U),
K.S.B = FINAL_STATE (DSCSK_CLASS_S, DSCSK_DTYPE_U),
K.S.B = FINAL_STATE (DSCSK_CLASS_S, DSCSK_DTYPE_U),
K.S.C = FINAL_STATE (DSCSK_CLASS_S, DSCSK_DTYPE_D),
K.S.C = FINAL_STATE (DSCSK_CLASS_S, DSCSK_DTYPE_D),
K.S.C = FINAL_STATE (DSCSK_CLASS_S, DSCSK_DTYPE_D),
K.S.C = FINAL_STATE (DSCSK_CLASS_S, DSCSK_DTYPE_NU),
K.S.NU = FINAL_STATE (DSCSK_CLASS_S, DSCSK_DTYPE_NU),
K.S.D.C = FINAL_STATE (DSCSK_CLASS_S, DSCSK_DTYPE_NU),
K.S.D.C = FINAL_STATE (DSCSK_CLASS_S, DSCSK_DTYPE_N),
K.S
          402
                                                                                     !The first argument to the macro is CLASS, and the second is the DATA TYPE.
           404
           405
           406
           407
           408
           409
           410
           411
          412
413
          414
          415
          416
          417
          418
           419
          0517
                                                         0518
                                                         0519
                                                        0519
0520
0521
0522
0523
0524
0525
0527
          434
          436
437
                                                          0528
                                                         0529
0530
           438
           439
                                                          0531
           440
```

(3)

F

F

FFFFFF1

FFF

F

F

F

```
N 15
LIB$$FIND_CVT_P_LIB$$FIND_CVT_PATH for internal use of LIB$CVT 16-Sep-1984 00:54:19
                                                                                                                               VAX-11 Bliss-32 V4.0-742
                                                                                                                                                                                    Page
                       Deterministic Finite Automata for LIB$CVT_DX_DX 14-Sep-1984 12:38:50
                                                                                                                                [LIBRTL.SRC]LIBFINCVT.B32:1
                                                                                                                                                                                           (3)
                                             K_SD_NRO = FINAL_STATE (DSC$K_CLASS_SD, DSC$K_DTYPE_NRO),
K_SD_NZ = FINAL_STATE (DSC$K_CLASS_SD, DSC$K_DTYPE_NZ),
K_SD_P = FINAL_STATE (DSC$K_CLASS_SD, USC$K_DTYPE_P),
K_NCA_BU = FINAL_STATE (DSC$K_CLASS_NCA, DSC$K_DTYPE_BU),
K_NCA_T = FINAL_STATE (DSC$K_CLASS_NCA, DSC$K_DTYPE_T),
K_VS_T = FINAL_STATE (DSC$K_CLASS_VS, DSC$K_DTYPE_VT),
K_VS_VT = FINAL_STATE (DSC$K_CLASS_VS, DSC$K_DTYPE_VT),
    442
                       0534
0535
0536
0537
    444
    445
    446
                       0538
                       0539
    447
                       0540
                       0541
                       0542
0543
                                  ! These are the left or right hand side of the conversion index.
   451 452 453 454 455
                                              K_SMLINT = 1,
K_LRGINT = 2,
K_SMLFLT = 3,
                       0544
                       0545
                       0546
0547
                                              KTLRGFLT = 4,
KTDEC = 5,
   456
                       0548
                       0549
                                              K_NBDS = 6.
                                              K_TOT_CAT = 6;
    458
                       0550
    459
                       0551
                       0552
0553
    460
    461
                                     Define two structures.
                       0554
    462
                                     START_STATE is just a vector of bytes, so we just use a macro to define it.
                                     STATES is a structure that we put all the states in other than the first state,
    463
                       0555
                       0556
    464
                                     and of course the final states and the states that never get used such as
    465
                       0557
                                     the states that contain non-supported CLASSes will not be in this structure.
                       0558
    466
    467
                       0559
                       0560
                                        STRUCTURE
    468
                                              STATES [STATE, TOKEN] =
    469
                       0561
                                                    [K_ACTUAL_CLASSES * K_MAX_DATA_TYPES]
(STATES + (K_MAX_DATA_TYPES *
                       0562
0563
   470
   471
472
473
474
475
                       0564
0565
                                                    BEGIN
                       0566
0567
0568
0569
0570
0571
                                                    CASE STATE FROM K_MIN_CLASS TO K_MAX_CLASS OF
   476
477
                                                          [K_STATE1_CLASS_S] :
   478
    479
    480
                                                         [K_STATE2_CLASS_D] :
    481
482
483
484
485
                       0573
                       0574
                       0575
                                                         [K_STATE4_CLASS_A] :
                       0576
                       0577
    486
487
                       0578
                                                          [K_STATE9_CLASS_SD] :
                       0579
    488
                       0580
                       0581
                                                          [K_STATE10_CLASS_NCA] :
                       0582
0583
    490
    491
                       0584
                                                          [K_STATE11_CLASS_VS] :
    493
                       0585
    494
                       0586
    495
                       0587
                                                          [INRANGE, OUTRANGE] : BEGIN
    496
                       0588
    497
                       0589
                                                               LIBSSTOP (LIBS_FATERRLIB);
    498
                       0590
```

```
LIBSSFIND_CVT_P LIBSSFIND_CVT_PATH for internal use of LIBSCVT 16-Sep-1984 00:54:19
                                                                                                                                                                                                              VAX-11 Bliss-32 V4.0-742
                                     Deterministic Finite Automata for LIBSCVT_DX_DX 14-Sep-1984 12:38:50
                                                                                                                                                                                                              [LIBRTL.SRC]LIBFINCVT.B32:1
      500
501
502
503
                                    0593
0593
0595
                                                                                             TES
                                                                                    ) + TOKEN)<0, %BPUNIT, 1>;
      504
505
                                    0596
0597
0598
0599
      506
507
                                                            This is the start state entries.
                                                            for each CLASS in the standard there is an entry here. They are:
      508
                                    0600
0601
0602
0603
                                                                                         , S
                                                                                                       D.
                                                                                                                     . V
      509
                                                                         P
                                                                                         none ,J
                                                                                                                     ,none
                                                                                                                                      SD
     510
511
512
513
514
516
517
518
                                                                         ,NCA
                                                                                         ,VS
                                                                                                       .VSA
                                                                                                                     .UBS
                                                                                                                                      JUBA.
                                    0604
                                                                 BIND
                                    0606
0607
0608
                                                                           CLASS_TABLE = UPLIT BYTE
                                                                    % (Start state. All classes.)%
                                                                    0609
                                    0610
0611
0612
0613
                                                                    ,DSC$K_CLASS_NCA,DSC$K_CLASS_VS,K_UNSCEAROU,K_UNSCLAROŪ,K_UNSCLAROU) : START_STATE;
      519
     This is the rest of the state table. It is seperate because of space efficiency Each state contains entries for each data type supported by the standard.
                                     0614
                                     0615
                                                            Note that for space efficiency The final states are not in the vector.
                                    0616
0617
                                                            Also since each state represents a supported CLASS, if a CLASS is not
                                                            supported (by the standard or routine), then the state has no entry in the vector. The index table for the vector will index to the proper place
                                    0618
                                    0619
                                                             in the vector below.
                                    0620
                                                            This table shows graphically what descriptors are valid.
                                    0621
                                                                                                    DSCSK DTYPE X
BU WU LU B W L Q F D G H T NO NL NLO NR NRO NZ P VT
                                    0622
0623
0624
0625
                                                       DSC$K_CLASS_S x
DSC$K_CLASS_D
DSC$K_CLASS_SD
DSC$K_CLASS_VS
DSC$K_CLASS_VS
DSC$K_CLASS_NCA x
                                                                                                    X X X X X X X X X X X
                                                                                                                                                                                          X X
                                                                                                                         X X X X X X X X X
                                                                                                                                                                                          X X
                                    0626
                                    0627
                                    0628
                                    0629
      538
539
                                    0630
                                    0631
                                                         !Note that these data types are hard coded in ( zero based vector, and position
                                    0632
0633
      540
                                                        lof each data type is determined be the value of the symbol ) so if wata type
      541
                                                        !values are ever rearranged this table must be rearranged.
                                    0634
0635
0636
0637
      542
543
      544
                                                                 BIND
      545
                                                                          DTYPE_TABLE = UPLIT BYTE
      546
547
                                     0638
                                                                          State zero. Class z. )%
                                                                   %( State one. Class s. )%
                                     0639
                                                                  **Control Class s. ) **

(K_UNSDTYROU, K_UNSDTYROU, DSC$K_DTYPE_BU, DSC$K_DTYPE_WU, DSC$K_DTYPE_LU
, K_UNSDTYROU, D$C$K_DTYPE_B, DSC$K_DTYPE_W, DSC$K_DTYPE_L, DSC$K_DTYPE_Q
, D$C$K_DTYPE_F, DSC$K_DTYPE_D, K_UNSDTYROU, K_UNSDTYROU, D$C$K_DTYPE_NR, DSC$K_DTYPE_NR
, DSC$K_DTYPE_NU, DSC$K_DTYPE_P, K_UNSDTYROU, K_UNSDTYROU, K_UNSDTYROU
, K_UNSDTYROU, K_UNSDTYROU, K_UNSDTYROU, K_UNSDTYROU
, K_UNSDTYROU, K_UNSDTYROU, K_UNSDTYROU, K_UNSDTYROU
, K_UNSDTYROU, K_UNSDTYROU, K_UNSDTYROU, K_UNSDTYROU

**INCRESCIA_K_UNSDTYROU, K_UNSDTYROU, K_UNSDTYROU, K_UNSDTYROU

**INCRESCIA_K_UNSDTYROU, K_UNSDTYROU,       548
                                     0640
      549
550
551
                                     0641
                                    0642
      552
553
                                     0644
                                     0645
       554
                                    0646
       555
                                                                    ,K_UNSDESSTA,K_UNSDESSTA,K_UNSDESSTA
```

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LOCAL

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```
LIBSSFIND_CVT_P_LIBSSFIND_CVT_PATH for internal use of LIBSCVT 16-Sep-1984 00:54:19
                                                                                                              VAX-11 Bliss-32 V4.0-742
                                                                                                                                                            Page
                   Deterministic Finite Automata for LIBSCVT_DX_DX 14-Sep-1984 12:38:50
                                                                                                              [LIBRTL.SRC]LIBFINCVT.B32;1
                                        STATUS.
                                                                                            Status of this routine
                   0706
0707
                                       STATE,
CLASS,
   614
                                                                                             State
                                                                                             Current CLASS being looked at Current DTYPE being looked at
   615
                    0708
                                        DTYPE.
   616
   617
                    0709
                                        TOKEN
                                                                                             The value of each data type supported
                                       LEFT CVT : VOLATILE VECTOR [1], RIGHT CVT : VOLATILE VECTOR [1], LEFT OR RIGHT CVT : REF VECTOR, SRC OR DST INFO : REF BLOCK [, B SRC OR DST : REF BLOCK [, B YTÉ],
                    0710
   618
                                                                                             Left side of conversion index.
   619
                    0711
                                                                                             Right side of conversion index.
   620
621
622
423
624
625
                   0712
0713
                                                                                             Left or right side of conversion index.
                                                                       CK [, BYTE],
, BYTE],
                                                                                             Source or destination info.
                   0714
0715
                                                                                             Source or destination.
                                        TEMP_BOF: BLOCK [K_INTMED_DATA_LENGTH, BYTE]; ! Temporary buffer for reshuffling things.
                   0716
0717
                   0718
0719
   626
                                        SOURCE : REF BLOCK [, BYTE]
   627
                                        DESTINATION : REF BLOCK [, BYTE]
                                        SRC_INFO : REF BLOCK [, BYTE] FIELD (SRC_INFO_FIELDS), DST_INFO : REF BLOCK [, BYTE] FIELD (DST_INFO_FIELDS);
   628
                   0720
0721
0722
0723
0724
0725
0726
0727
0728
0729
0730
   629
630
   631
   632
                                Traverse through the state table twice. Once for source, and once for
                                destination descriptor.
   634
635
                                Each time come up with a final state that indicates which left hand side
                                (for the first traversing), or right hand side (for the second traversing) of conversion we have got, e.g. SMLINT, or LRGFLT, etc. The action codes also build SRC_INFO, and DST_INFO, and they do
   636
   637
   638
                                the conversions to the intermediate values.
   639
                                After we have the left hand side of conversion for source and the right hand
                   0732
0733
   640
                                side of conversion for destination
   641
                                descriptor, then stick them in a formula that maps these two into
   642
                                one final answer that indicates which general CLASS, DTYPE is being converted to which general CLASS, DTYPE, e.g. SMLINT LRGFLT, or DEC_SMLFLT, etc.
                   0734
                   0735
                   0736
0737
   644
                                These final answers are the output parameter CVT_PATH that will end up as the
   645
                                index to the CASE statement in LIB$CVT_DX_DX.
                   0738
   646
                   0739
   647
                   0740
   648
                                This loop is from 0 to 3, but we EXITLOOP at 2 because that is the second time
                   0741
   649
                                through the loop and the end of the road.
                   0742
0743
   650
                                When the state table indicates an error, or we detect an error in an action routine,
   651
                                we will just EXITLOOP with the value given by the state table, or of our own choice.
                   0744
   652
                                Note that we EXITLOOP when we detect errors in the action routines, e.g. if array
   653
                   0745
                                size is greater than a WU.
                   0746
0747
   654
   655
   656
                   0748
                                   STATUS = (INCRU TURN FROM 0 TO 3 DO
   657
                   0749
                                        BEGIN
   658
                   0750
   659
                    0751
                                Determine CLASS and DTYPE of this go around, also set up LEFT_OR_RIGHT_CVT,
                   0752
0753
   660
                                and SRC_OR_DST, and SRC_OR_DST_INFO
                              ! If this is the third time through this loop, we are finished.
   661
                   0754
0755
   662
   663
                   0756
0757
   664
                                        CASE .TURN FROM 0 TO 2 OF
   665
                   0758
0759
   666
   667
                                             [0]
                    0760
                                                  BEG!N
   668
                    0761
                                                  CLASS = .SOURCE [DSC$B_CLASS];
   669
```

```
LIBSSFIND_CVT_P_LIBSSFIND_CVT_PATH for internal use of LIBSCVT 16-Sep-1984 00:54:19
                                                                                                      VAX-11 Bliss-32 V4.0-742
                                                                                                                                                 Page 14
                  Deterministic Finite Automata for LIB$CVT DX DX 14-Sep-1984 12:38:50
                                                                                                      [LIBRTL.SRC]LIBFINCVT.B32:1
                                                                                                                                                      (3)
   670
671
672
673
                  0762
0763
                         666
                                              DTYPE = .SOURCE [DSC$B_DTYPE];
                                              SRC_UR_DST = .SOURCE
                  0764
                                              SRC_OR_DST_INFO = .SRC_INFO;
                                              LEFT_OR_RIGHT_CVT = LEFT_CVT;
                  0765
   674
                  0766
                                              END:
   675
                  0767
   676
                  0768
                                          [1]:
                                              BEGIN
   677
                  0769
                                              CLASS = .DESTINATION [DSC$B_CLASS];
DTYPE = .DESTINATION [DSC$B_DTYPE];
   678
                  0770
   679
                  0771
                  0772
                                              SRC_OR_DST = .DESTINATION;
SRC_OR_DST_INFO = .DST_INFO;
LEFT_OR_RIGHT_CVT = RIGHT_CVT;
   680
   681
682
683
684
685
                  0774
                  0775
                  0776
0777
                                          [2]:
   686
687
688
                  0778
                                              EXITLOOP K_SUPPORTED;
                  0779
                                          TES:
                  0780
   689
                  7781
                  0782
0783
0784
0785
0786
0787
0788
   690
                           : Filter out the out-of-range CLASS and DTYPE.
   691
692
693
                                     IF .CLASS GTRU K_MAX_CLASS_STA THEN EXITLOOP K_UNSCLASTA;
   694
   695
                                     IF .DTYPE GTRU K_MAX_DTYPE_STA THEN EXITLOOP K_UNSDTYSTA;
   696
   697
                  0789
   698
                  0790
                           ! Crank up the finite state machine. start looking in the start state.
   699
                  0791
                  0792
   700
                                     STATE = .CLASS_TABLE [.CLASS];
   701
                  0793
   702
                  0794
                             Action code for each state that results from the start state.
   703
                  0795
   704
                  0796
   705
                  0797
                                     CASE _STATE FROM K_MSTNEGERR TO K_LRGCLSSUP OF
   706
                  0798
   707
                  0799
   708
                  0800
                                          [K_INVNBDS TO K_UNSCLAROU] :
   709
                  0801
                                              EXITLOOP .STATE;
                                                                                      Exit the INCR with the error
                  0802
   710
                                                                                    ! resulted from the start state.
   711
   712
713
                  0804
                                          [K_SMLCLSSUP TO K_LRGCLSSUP] :
                  0805
   714
                  0806
                                              TOKEN = .DTYPE_TABLE [.STATE, .DTYPE]; ! This is a final state, but
   715
                  0807
                                                                                      some constants need to be
   716
717
                  0808
                                                                                      Applied to it yet.
                                                                                     This is just a data type, or a negative number if error.
                  0809
   718
                  0810
   719
720
721
722
723
724
725
726
                  0811
                                              IF .TOKEN LSS O THEN EXITLOOP .TOKEN:
                                                                                           ! Exit INCR with the error resulted
                  0812
0813
                                                                                     in a final state.
                  0814
                                              STATE = FINAL_STATE (.STATE, .TOKEN); ! Find the final state.
                  0815
                                              END:
                  0816
                  0817
                                          [INRANGE, OUTRANGE] :
                   0818
                                              LIB$STOP (LIB$_FATERRLIB);
```

```
LIB$$FIND_CVT_P LIB$$FIND_CVT_PATH for internal use of LIB$CVT 16-Sep-1984 00:54:19 1-006 Deterministic Finite Automata for LIB$CVT_DX_DX 14-Sep-1984 12:38:50
                                                                                                                         VAX-11 Bliss-32 V4.0-742 [LIBRTL.SRC]LIBFINCVT.B32;1
   7289012334567890123445
                                                 TES:
                     0820
0821
0823
                                   This CASE statement contains the action code for each final state other than
                                   the erro' states.
                      0825
0825
0827
0828
0828
0833
                                   The caller of this routine has set up the pointer and length of SRC_INFO
                                   to be the intermediate data area (INTMED_DATA), so in the CASE below we
                                    will change pointer and length if needed (e.g. any NBDS), otherwise we never
                                   touch it.
                                   If .TURN is 0 then we are processing the left side of the conversion, when it is 1 we are processing the right side of the conversion. Another words
                                   if .TURN is 0 we are looking at the CLASS, DATA TYPE of source, and if it is 1 we are looking at CLASS, DATA TYPE of destination. These action codes determine which category (e.g. K_SMLINT or K_DEC as
                      0832
                      0833
                                    described in LIB$CVT_DX_DX documentation) source or destination data type
                      0834
                                   falls into. They also convert the source data type to an intermediate data type. For more detail refer to the functional description of
                      0835
                      0836
                                   LIBSCVT_DX_DX.
                      0837
    746
                      0838
    747
                      0839
                                            CASE .STATE FROM K_SMLFINSTA TO K_LRGFINSTA OF
                     0840
0841
    748
    749
                     0842
0843
   750
751
752
753
754
755
756
757
758
759
                                                 [K_S_BU, K_SD_BU] : BEGIN
                     0844
                                                       .LEFT_OR_RIGHT_CVT = K_SMLINT;
                     0846
0847
                                                       IF .TURN EQL 0
                      0848
                                                             .SRC_INFO [S_POINTER] = .BLOCK [.SOURCE [DSC$A_POINTER], 0, 0, 8, 0;,
                      0849
                                                                  BYTE]:
                      0850
                      0851
                                                      END:
                     0852
0853
   760
   761
                                                 [K_S_WU, K_SD_WU] :
   762
763
                      0854
                      0855
                                                       .LEFT_OR_RIGHT_CVT = K_SMLINT;
                     0856
0857
    764
   765
                                                       IF .TURN EQL 0
    766
                      0858
                                                       THEN
    767
                      0859
                                                             .SRC_INFO [S_POINTER] = .BLOCK [.SOURCE [DSC$A_POINTER], 0, 0, 16, 0;,
    768
                      0860
                      0861
    769
                     0862
0863
    770
                                                       END:
   771
   772
773
                      0864
                                                 [K_S_LU, K_SD_LU] :
                      0865
                     0866
0867
   774
                                                       .LEFT_OR_RIGHT_CVT = K_LRGINT;
    775
   776
777
                      0868
                                                       IF .TURN EQL 0
                      0869
   778
                      C870
                                                             .SRC_INFO [S_F7INTER] = .BLOCK [.SOURCE [DSC$A_POINTER], 0, 0, 32, 0;,
    779
                      0871
                                                                  BYTEJ:
                     0872
0873
    780
    181
                                                       END:
    782
                      0874
    783
                      3875
                                                 [K_S_B, K_SD_B] :
```

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G 16
LIB$$FIND_CVT_F LIB$$FIND_CVT_PATH for internal use of LIB$CVT 16-Sep-1984 00:54:19 1-006 Deterministic Finite Automata for LIB$CVT_DX_DX 14-Sep-1984 12:38:50
                                                                                                 VAX-11 Bliss-32 V4.0-742
                                                                                                                                          Page 16 (3)
                                                                                                 [LIBRTL SRC]LIBFINCVT.B32:1
                                            BEGIN
   785
                                            .LEFT_OR_RIGHT_CVT = K_SMLINT;
   786
   787
                                            IF .STATE EQL K_SD_B THEN SRC_OR_DST_INFO [M_SCALE] = .SRC_OR_DST [DSC$B_SCALE];
   788
   789
                                            IF .TURN EQL 0
   790
791
792
793
794
795
                                            THEN
                                                 .SRC_INFO [S_POINTER] = .BLOCK [.SOURCE [DSC$A_POINTER], 0, 0, 8, 1;,
                                                     BYTE];
                                            END:
                 0887
   796
797
                 0888
                                        [K_S_W, K_SD_W] :
                 0889
   798
                 0890
                                            .LEFT_OR_RIGHT_CVT = X_SMLINT;
   799
                 0891
   800
                 0892
                                            IF .STATE EQL K_SD_W THEN SRC_OR_DST_INFO [M_SCALE] = .SRC_OR_DST [DSC$B_SCALE];
   801
  802
803
                 0894
                                            IF .TURN EQL 0
                 0895
                                            THEN
   804
                 0896
                                                 .SRC_INFO [S_POINTER] = .BLOCK [.SOURCE [DSC$A_POINTER], 0, 0, 16, 1;,
   805
                 0897
   806
                 0898
   807
                 0899
                                            END:
   808
                 0900
  809
                 0901
                                        [K_S_L, K_SD_L] :
  810
                 0902
  811
                 0903
                                            .LEFT_OK_RIGHT_CVT = K_SMLINT;
  812
                 0904
  813
                 0905
                                            IF .STATE EQL K_SD_L THEN SRC_OR_DST_INFO [M_SCALE] = .SRC_OR_DST [DSC$8_SCALE];
  814
                 0906
                 0907
                                            IF .TURN EQL 0
  815
  816
                 0908
                                            THEN
  817
                 0909
                                                 .SRC_INFO [S_POINTER] = .BLOCK [.SOURCE [DSC$A_POINTER], 0, 0, 32, 1;,
  818
                 0910
                                                     BYTE]:
  819
                 0911
                 0912
  820
                                            END:
  821
  822
823
824
825
                 0914
                                       [K_S_Q, K_SD_Q] :
                 0915
                 0916
0917
                                            .LEFT_OR_RIGHT_CVT = K_LRGINT;
  0918
                                            IF .STATE EQL K_SD_Q THEN SRC_OR_DST_INFO [M_SCALE] = .SRC_OR_DST [DSC$B_SCALE];
                 0919
                                            IF .TURN EQL O
                                            THEN
                                                 BEGIN
                                                 .SRC_INFO [S_POINTER] = .BLOCK [.SOURCE [DSC$A_POINTER], 0, 0, 32, 0;, BYTE];
                 0924
                                                 (.SRC_INFO [S_POINTER] + 4) = .BLOCK [.SOURCE [DSC$A_POINTER] + 4, 0, 0, 32, 0;, BYTE];
                                                 IF .BLOCK [.SRC_INFO [S_POINTER], 4, 31, 1, 0;, BYTE]
                 0927
                                                 THEN
                 0928
                                                     BEGIN
                                                     .SRC_INFO [S_POINTER] = ..SRC_INFO [S_POINTER] XOR_XX'FFFFFFFF';
                 0930
                                                     .SRC_INFO [S_POINTER] + 4 = .T.SRC_INFO [S_POIN\ER] + 4) XOR %X'FFFFFFFFF;
                 0932
   840
                                                     IF .. SRC_INFO [S_POINTER] EQLU K_LRGST_LU
```

```
H 16
LIBESFIND_CVT_P LIBSSFIND_CVT_PATH for internal use of LIBSCVT 16-Sep-1984 00:54:19
                                                                                                                                              Page 17 (3)
                                                                                                    VAX-11 Bliss-32 V4.0-742
1-006
                  Deterministic Finite Automata for LIB$CVT_DX_DX 14-Sep-1984 12:38:50
                                                                                                    [LIBRTL.SRC]LIBFINCVT.B32:1
                                                       THEN
   842
843
                  0934
                  0935
                                                           .SRC_INFO [S_POINTER] = 0;
.SRC_INFO [S_POINTER] + 4 = .(.SRC_INFO [S_POINTER] + 4) + 1;
   844
                  0936
   845
                  0937
   846
847
848
                  0938
                                                       ELSE
                  0939
                                                           .SRC_INFO [S_POINTER] = ..SRC_INFO [S_POINTER] + 1;
                  0940
   849
850
851
853
                                                      SRC_INFO [S_SIGN] = 1;
END;
                  0941
                  0942
                  0944
                                                  END:
   854
855
856
857
                  0946
                                             END:
                  0947
                  0948
                                         [K_S_F, K_SD_F] :
   858
                  0950
                                              .LEFT_OR_RIGHT_CVT = K_SMLFLT;
   859
   860
                                              IF .STATE EQL K_SD_F THEN SRC_OR_DST_INFO [M_SCALE] = .SRC_OR_DST [DSC$B_SCALE];
   861
862
863
                                              IF .TURN EQL O
                                              THEN
   864
                  0956
                                                  .SRC_INFO [S_POINTER] = .BLOCK [.SOURCE [DSC$A_POINTER], 0, 0, 32, 0;,
   865
                  0957
                                                       BYTEJ:
   866
                  0958
   867
                  0959
                                             END:
   868
                  0960
   869
870
                                         [K_S_D, K_SD_D] :
                  0961
                  0962
   871
                  0963
                                              .LEFT_OR_RIGHT_CVT = K_SMLFLT;
  872
873
                  0964
                  0965
                                             IF .STATE EQL K_SD_D THEN SRC_OR_DST_INFO [M_SCALE] = .SRC_OR_DST [DSC$B_SCALE];
  874
875
                  0966
                  0967
                                              IF .TURN EQL 0
  876
877
878
                  0968
                                              THEN
                  0969
                                                  BEGIN
                  0970
                                                  .SRC_INFO [S_POINTER] = .BLOCK [.SOURCE [DSC$A_POINTER], 0, 0, 32, 0;, BYTE];
   879
                  0971
                                                  (.SRT_INFO [S_POINTER] + 4) = .BLOCK [.SOURCE [DSC$A_POINTER] + 4, 0, 0, 32, 0;, BYTE];
   880
                  0972
                                                  END:
   881
882
883
                  0973
                  0974
                                             END:
                  0975
   884
885
                                         [K_S_G, K_SD_G] :
                  0976
                  0977
   886
887
                  0978
                                              .LEFT_OR_RIGHT_CVT = K_LRGFLT;
                  0979
   888
889
890
891
892
893
                  0980
                                              IF .STATE EQL K_SD_G THEN SRC_OR_DST_INFO [M_SCALE] = .SRC_OR_DST [DSC$B_SCALE];
                  0981
                  0982
                                              IF .TURN EQL O THEN CVTGH (.SOURCE [DSC$A_POINTER], .SRC_INFO [S_POINTER]);
                  0983
                  0984
                                              END:
                  0985
   894
                                         [K_S_H, K_SD_H] :
                  0986
   895
                  0987
   896
                  0988
                                              .LEFT_OR_RIGHT_CVT = K_LRGFLT;
   897
                  0989
```

```
16
LIB$$FIND_CVT_P LIB$$FIND_CVT_PATH for internal use of LIB$CVT 16-Sep-1984 00:54:19
                                                                                               VAX-11 Bliss-32 V4.0-742
                                                                                                                                      Page 18 (3)
1-006
                 Deterministic Finite Automata for LIB$CVT_DX_DX 14-Sep-1984 12:38:50
                                                                                               [LIBRTL.SRC]LIBFINCVT.B32:1
   898
899
900
                 0990
                                           IF .STATE EQL K_SD_H THEN SRC_OR_DST_INFO [M_SCALE] = .SRC_OR_DST [DSC$B_SCALE];
                 0991
                       6
                 0992
                                           IF .TURN EQL O THEN CH$MOVE (16, .SOURCE [DSC$A_POINTER], .SRC_INFO [S_POINTER]);
                 0993
   902
903
                 0994
                                           END:
                 0995
   904
                 0996
                                      [K_S_T, K_SD_T] :
   905
                 0997
   906
                 0998
                                           .LEFT OR_RIGHT_CVT = K_NBDS;
   907
                 0999
                                           SRC_OR_DST_INFO [M_LEN] = .SRC_OR_DST [DSC$w_LENGTH];
   908
                 1000
   909
                 1001
                                           IF .STATE EQL K_SD_T THEN SRC_OR_DST_INFO [M_SCALE] = .SRC_OR_DST [DSC$B_SCALE];
   910
                 1002
   911
                 1003
                                           IF .TURN EQL 0
   912
913
                 1004
                                           THEN
                 1005
   914
                 1006
                                               SRC_INFO [S_POINTER] = .SOURCE [DSC$A_POINTER];
   915
                 1007
   916
                 1008
   917
                 1009
                                           END:
   918
                 1010
   919
                 1011
                                      [K_S_NU, K_SD_NU] :
  1012
                                           .LEFT_OR_RIGHT_CVT = K_DEC;
                 1014
                 1015
                                           IF .STATE EQL K_SD_NU THEN SRC_OR_DST_INFO [M_SCALE] = .SRC_OR_DST [DSC$B_SCALE];
                 1016
                 1017
                                           IF .TURN EQL O
                 1018
                                           THEN
                 1019
                                               BEGIN
                                               SRC_INFO [S_LEN] = 31;
CVTTP (SOURCE [DSC$W_LENGTH], .SOURCE [DSC$A_POINTER], LIB$AB_CVTTP_U,
                 1020
                 1021
                 1022
                                                    SRC_INFO [S_LEN], .SRC_INFO [S_POINTER]);
                 1023
                                               END:
                 1024
                 1025
                                           END:
                 1026
                 1027
                                      [K_S_NL, K_SD_NL] : BEGIN
                 1028
                 1029
                                           .LEFT_OR_RIGHT_CVT = K_DEC;
                 1031
                                           IF .STATE EQL K_SD_NL THEN SRC_OR_DST_INFO [M_SCALE] = .SRC_OR_DST [DSC$B_SCALE];
                 1032
                 1033
                                           IF .TURN EQL 0
                 1034
                                           THEN
                 1035
                                               BEGIN
                                               SRC_INFO [S_LEN] = 31;
                 1036
                 1037
                                               CVTSP (TREFT(
                 1038
                 1039
                                                        IF .SOURCE [DSC$W LENGTH] EQL O THEN O ELSE .SOURCE [DSC$W LENGTH] - 1),
                 1040
                                                    .SOURCE [DSC$A_POINTER], SRC_INFO [S_LEN], .SRC_INFO [S_POINTER]);
   949
                 1041
   950
                 1042
                                               END:
   951
   952
953
                 1044
                                           END:
                 1045
                 1046
                                       [K_S_NLO, K_SD_NLO] :
```

```
_IB$$FIND_CVT_P_LIB$$FIND_CVT_PATH | for internal use of LIB$CVT_16-Sep-1984_00:54:19
                                                                                                       VAX-11 Bliss-32 V4.0-742 [LIBRTL.SRC]LIBFINCVT.B32;1
                                                                                                                                                  Page 19 (3)
1-006
                  Deterministic Finite Automata for LIB$CVT_DX_DX 14-Sep-1984 12:38:50
   956
957
958
959
                  1048
                                               .LEFT_OR_RIGHT_CVT = K_DEC:
                  1049
                  1050
                                               IF .STATE EGL K_SD_NLO THEN SRC_OR_DST_INFO [M_SCALE] = .SRC_OR_DST [DSC$B_SCALE];
                  1051
   960
961
962
963
964
965
                  1052
                                               IF .TURN EQL O
                                               THEN
                  1054
                                                   BEGIN
                  1055
                  1056
                                                   BIND FIRST_BYTE = SOURCE [DSC$A_POINTER] : REF VECTOR [,BYTE];
                  1057
   966
967
968
969
970
                  1058
                                                   SRC_INFO[S_LEN] = 31
                                                   CHSTRANSLATE (LIBSAB CVT Q U, SOURCE [DSCSW_LENGTH], SOURCE [DSCSA_POINTER], O, SOURCE [DSCSW_LENGTR], TEMP_BUF);
                  1059
                  1960
                                                   CVTTP (SOURCE [DSC$W LENGTH], TEMP_BUF, LIBSAB_CVTTP_U, SRC_INFO [S_LEN], .SRC_INFO [S_POINTER]);
                  1061
                  1062
   971
  972
973
                                                   IF (.FIRST_BYTE [0] GEQU %X'4A' AND .FIRST_BYTE [0] LEQU %X'52') OR .FIRST_BYTE [0] EQLU %X'7D'
                  1064
                  1065
  974
975
                  1066
                  1067
                                                        BLOCK [.SRC_INFO [S_POINTER] + .SRC_INFO [S_LEN]/2, 0, 0, 4, 0; BYTE] =
   976
977
                  1068
                                                             .BLOCK [LIBSAB_CVTTP_O + .FIRST_BYTE [O], O, O, 4, O;, BYTE];
                  1069
   978
                  1070
                                                   END:
   979
                  1071
                  1072
   980
                                              END:
   981
  982
983
                  1074
                                          [K_S_NR, K_SD_NR] :
                  1075
                                               BEGIN
  984
985
                  1076
                                               .LEFT_OR_RIGHT_CVT = K_DEC:
                  1077
   986
                  1078
                                              IF .STATE EQL K_SD_NR THEN SRC_OR_DST_INFO [M_SCALE] = .SRC_OR_DST [DSC$B_SCALE];
   987
                  1079
   988
                  1080
                                               IF .TURN EQL O
  989
990
991
992
993
994
                  1081
                                              THEN
                  1082
                                                   BEGIN
                  1084
                                                   LOCAL
                  1085
                                                        SOU_LEN;
                  1086
   995
                  1087
                                                   SOU_LEN =
   996
997
                  1088
                                                   BEGIN
                  1089
   998
                  1090
                                                   IF .SOURCE [DSC$W_LENGTH] EQL O THEN O ELSE .SOURCE [DSC$W_LENGTH] - 1
   999
                  1091
  1000
                  1092
                  1093
                                                   TEMP_BUF [C, 0, 8, 0] = .BLOCK [.SOURCE [DSC$A_POINTER] + .SOU_LEN, 0, 0, 8, 0;, BYTE];
  1001
                                                   CH$MOVE (.500 LEN, .SOURCE [DSC$A_POINTER], TEMP_BUF + 1);
SRC_INFO [S_LEN] = 31;
                   1094
  1002
  1003
                  1095
                   1096
  1004
                                                   CVTSP (SOU_CIM, TEMP_BUF, SRC_INFO [S_LEN], .SRC_INFO [S_POINTER]);
  1005
                   1097
                                                   END;
                  1098
  1006
  1007
                  1099
                                               END:
  1008
                  1100
  1009
                  1101
                                          [K_S_NRO, K_SD_NRO] :
                  1102
  1010
 1011
                                               .LEFT_OR_RIGHT_CVT = K_DEC;
```

```
LIBSSFIND_CVT_P LIBSSFIND_CVT_PATH for internal use of LIBSCVT 16-Sep-1984 00:54:19
                                                                                                     VAX-11 Bliss-32 V4.0-742
                                                                                                                                               Page 20 (3)
1-006
                  Deterministic Finite Automata for LIB$CVT_DX_DX 14-Sep-1984 12:38:50
                                                                                                     [LIBRTL.SRC]LIBFINCVT.B32:1
 1012
1013
                  1104
1105
                                              IF .STATE EQL K_SD_NRO THEN SRC_OR_DST_INFO [M_SCALE] = .SRC_OR_DST [DSC$B_SCALE];
                  1106
  1014
 1015
                                              IF .TURN EQL O
                  1108
 1016
                                              THEN
                  1109
 1017
                                                  BEGIN
                  1110
 1018
                                                   SRC_INFO[S_LEN] = 31:
 1019
                  1111
                                                   CVTTP (SOURTE [DSCSW_LENGTH], .SOURCE [DSCSA_POINTER], LIBSAB_CVTTP_O,
                  1112
  1020
                                                       SRC_INFO [S_LEN], .SRC_INFO [S_POINTER]);
 1021
1023
1024
1025
1026
1027
1028
1029
1030
                  1114
                  1115
                                              END:
                  1116
                                         [K_S_NZ, K_SD_NZ] : BEGIN
                  1118
                                              .LEFT_OR_RIGHT_CVT = K_DEC;
                                              IF .STATE EQL K_SD_NZ THEN SRC_OR_DST_INFO [M_SCALE] = .SRC_OR_DST [DSC$B_SCALE];
 1031
1032
1033
                                              IF .TURN EQL O
                                              THEN
                                                  BEGIN
                                                  SRC INFO [S_LEN] = 31;
CVTTP (SOURCE [DSC$A_POINTER], LIB$AB_CVTTP_Z,
 1034
  1035
  1036
                                                       SRC_INFO [S_LEN], .SRC_INFO [S_POINTER]);
  1037
 1038
                  1131
 1039
                                              END:
                  1132
 1040
                  1133
 1041
                                         [K_S_P, K_SD_P] :
                  1134
 1042
                  1135
                                              .LEFT_OR_RIGHT_CVT = K_DEC;
                  1136
 1044
 1045
                  1137
                                              IF .STATE EQL K_SD_P THEN SRC_OR_DST_INFO [M_SCALE] = .SRC_OR_DST [DSC$B_SCALE];
                  1138
 1046
 1047
                  1139
                                              IF .TURN EQL 0
 1048
                  1140
                                              THEN
 1049
                  1141
                                                  CVTPS (SOURCE [DSC$W_LENGTH], .SOURCE [DSC$A_POINTER], %REF (31), TEMP_BUF); CVTSP (%REF (31), TEMP_BUF, %REF (31), .SRC_INFO [S_POINTER]); SRC_INFO [S_LEN] = 31;
  1050
                  1142
  1051
 1052
1053
                  1144
                  1145
                                                  END:
 1054
                  1146
                                              END:
 1056
1057
                  1148
                  1149
                                         [K_D_T]:
BEGIN
  1058
                  1150
  1059
                  1151
                                              .LEFT OR RIGHT CVT = K NBDS:
                  1152
  1060
                                              SRC_OR_DST_INFO [M_LEN] = .SRC_OR_DST [DSC$W_LENGTH];
  1061
                  1154
  1062
                                              IF .TURN EQL 0
  1063
                  1155
                                              THEN
                  1156
  1064
                                                  BEGIN
                  1157
  1065
                                                   SRC_INFO [S_POINTER] = .SOURCE [DSC$A_POINTER];
                  1158
  1066
                                                   END:
                  1159
  1067
  1068
                  1160
                                              END:
```

```
16
LIB$$FIND_CVT_P_LIB$$FIND_CVT_PATH for internal use of LIB$CVT_16-Sep-1984_00:54:19
                                                                                                        VAX-11 Bliss-32 V4.0-742
                                                                                                                                                  Page
1-006
                   Deterministic Finite Automata for LIB$CVT_DX_DX 14-Sep-1984 12:38:50
                                                                                                        [LIBRTL.SRC]LIBFINCVT.B32:1
  1069
: 1070
                   1162
                                          [K_A_BU, K_A_T, K_NCA_BU, K_NCA_T] :
: 1071
                                               BEGIN
: 1072
                   1164
                                                .LEFT_OR_RIGHT_CVT = K_NBDS;
  1073
                   1165
                   1166
  1074
                                               IF (.SRC_OR_DST [DSC$L_ARSIZE] GTR K_LRGST_WU OR .SRC_OR_DST [DSC$B_DIMCT] NEG 1 OR
  1075
                                                    .SRC_OR_DST [DSC$W_LENGTH] NEQ 17
  1076
                   1168
                   1169
  1077
                                                    EXITLOOP K_INVNBDS;
  1078
  1079
                   1171
                                               IF (.STATE EQL K_NCA_BU OR .STATE EQL K_NCA_T)
                   1172
  1080
                                               THEN
  1081
                                                    BEGIN
                   1174
  1082
  1083
                   1175
                                                    IF .SRC_OR_DST [DSC$L_S1] NEQ 1 THEN EXITLOOP K_INVNBDS;
                   1176
  1084
                   1177
  1085
                                                    END:
                   1178
  1086
                                               SRC_OR_DST_INFO [M_SCALE] = .SRC_OR_DST [DSC$B_SCALE];
SRC_OR_DST_INFO [M_LEN] = .SRC_OR_DST [DSC$L_ARSIZE];
                   1179
  1087
                   1180
  1088
                   1181
  1089
                   1182
  1090
                                               IF .TURN EQL O
  1091
                                               THEN
  1092
                   1184
                                                    BEGIN
  1093
                   1185
                                                    SRC_INFO [S_POINTER] = .SOURCE [DSC$A_POINTER];
                   1186
1187
  1094
  1095
  1096
                   1188
                                               END:
  1097
                   1189
                   1190
1191
                                          [K_VS_T, K_VS_VT] : BEGIN
  1098
  1099
                   1192
  1100
                                               .LEFT_OR_RIGHT_CVT = K_NBDS;
  1101
                   1194
  1102
                                               IF .TURN EQL 0
                   1195
                                               THEN
                   1196
  1104
                                                    BEGIN
                   1197
                                                    SRC_INFO [S_POINTER] = .SOURCE [DSC$A_POINTER] + 2;
SRC_INFO [S_LEN] = .BLOCK [.SOURCE [DSC$A_POINTER], 0, 0, 16, 0;, BYTE];
  1105
                   1198
  1106
                   1199
  1107
                                                    END
                   1200
1201
1202
1203
1204
1205
1206
1206
1208
1210
1211
1213
  1108
                                               ELSE
  1109
                                                    DST_INFO [D_LEN] = .DESTINATION [DSC$W_LENGTH];
  1110
  1111
                                               END:
  1112
                                          [INRANGE] :
                                               LIB$STOP (LIB$_FATERRLIB);
  1114
  1115
                                          TES:
  1116
  1117
                                      END
  1118
                                                                                       End of INCRU, with a EXITLOOP value. End of STATUS.
  1119
                                 END:
  1120
1121
1122
1123
1124
1125
                               Map the left and right of the conversion, (i.e. if the conversion is
                   1214
                               K_SMLINT_LRGFLT, then LEFT_CVT is SMLINT and RIGHT_CVT is LRGFLT)
                   1215
                               into a final conversion index and return with the status of this routine.
                   1216
                                  .CVT_PATH = (.LEFT_CVT - 1)*K_TOT_CAT + .RIGHT_CVT;
```

! End of routine LIB\$\$FIND_CVT_PATH

.TITLE LIB\$\$FIND_CVT_PATH LIB\$\$FIND_CVT_PATH for internal use of LIB\$CVT

.PSECT _LIB\$CODE,NOWRT, SHR, PIC,2

2, -1, 4, -1, -5, -1, -5, 9, 10, -, -1, -1 , 2, 3, 4, -2, 6, 7, 8, 9, 10, 11, -, 14, 15, 16, 17, 18, 19, 20, 21, -, -4, -2, -2, 27, 28, -2, -2, -2, -80 0A 09 FB FF FB FF 04 FF FF FF FF 02 01 FF 00000 P.AAA: .BYTE FE 10 0000F P.AAB: .BYTE FE 18 OF 0001E FE FE FE FC FE FC FE FC 0002D FC FC 0E FC 0003c FC FC FC FC FC 0004B FE 02 FE FE FD FD FD FD FD FD FD FD 0005A FD FC 14 FD FE FE FE FC FC FC FC FC 00069 FC 13 FC 09 FC FE 08 FC 07 FC FC FC FC FC FC 00078 OE FC FC 1B 06 12 11 10 OF 0B OA. 00087 FCFC FC FC FC FC FC FC FC FE 00096 FC 02 FC FC FC FC FD FC FC FC FD FC FC FC FE FE FD FD FD FD FD FD 000A5 FC FE FD FE FE FC FC FE 000B4 FE FC FC FC FC FC 25 FE FC FC FC FC FC FC FC FC FD 000C3 FČ ÒĚ F C FC FC FC FC FC FC 000D2 FC 000E1 000F0 -4, -4. -4, -4.

CLASS_TABLE= P.AAA
DTYPE_TABLE= P.AAB

.EXTRN LIB\$STOP, LIB\$\$CVT_CVTGH_R1
.EXTRN LIB\$AB_CVTTP_U, LIB\$AB_CVT_U_O
.EXTRN LIB\$AB_CVTTPT_O, LIB\$AB_CVTPT_O
.EXTRN LIB\$AB_CVTPT_U, LIB\$AB_CVTPT_O
.EXTRN LIB\$AB_CVTPT_Z, LIB\$AB_CVT!P_Z
.EXTRN LIB\$_FÄTERRLIB

OFFC 00000 .ENTRY LIB\$\$FIND_CVT_PATH, Save R2,R3,R4,R5,R6,R7,-; 0194 R8,R9,R10,R11' C2 D4 00002 SUBL 2 5E 38 ĀĚ 00005 CLRL 0748 TURN 02 003C ŎČ AE CF 00008 15: 0756 CASEL TURN, #0, #2 0021 3\$-2\$,-4\$-2\$,-0006 0000D 2\$: .WORD 55-25 SOURCE, RO 3(RO), CLASS 04 03 02 DO 00013 3\$: MOVL 0761 04 ΑŌ 9A 00017 MOVZBL 6E 58 A0 50 9A 0001C MOVZBL 2(RO), DTYPE 0762 0763 00 00020 MOVL RO, SRC_OR_DST

15\$-14\$,-195-145,-

1-0

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RU	•	
R0	:	
RO	;	
R0		
. RO		
8, RO YPE_TABLE[RO], RO TYPE[RO], TOKEN S	. 091	1
KEN, STATUS	081	1
S\$ STATE, RO	. 081	4
KÉN, RO, STATE ATE, #40, #415 \$-26\$,-	. 083	9
5- 26 5,-	;	
\$- 26 \$,- 2 \$- 26 \$,-	; ;	
\$-26\$,- \$-26\$,-		
\$-26\$,- \$-26\$,-	•	
\$-26\$,- \$-26\$,-		
2\$-26\$,- 2\$-26\$,-	:	
5-26 5,-	:	
\$-26 \$,- \$-26 \$,-	•	,
\$-26 \$,- \$-26 \$,-	•	
5- 26 \$, - 5- 26 \$, -	:	

C 1
LIB\$\$FIND_CVT_P LIB\$\$FIND_CVT_PATH for internal use of LIB\$CVT 16-Sep-1984 00:54:19 VAX-11 Bliss-32 V4.0-742
1-006 Deterministic Finite Automata for LIB\$CVT_DX_DX 14-Sep-1984 12:38:50 [LIBRTL.SRC]LIBFINCVT.B32;1

LIBSSFIND_CVT_P LI 1-006 De	B\$\$FIND_CVT_PA' terministic=Fin	TH for internal nite Automata fo	use of L or LIB\$CVT	D 1 IB\$CVT 16-Sep-19 _DX_DX 14-Sep-19	84 00:54:19 84 12:38:50	VAX-11 Bliss-32 V4.0-742 [LIBRTL.SRC]LIBFINCVT.B32;1	Page 25 (3)
0710 0710 0710 0710 0710 0710 0710 0710	0710 0710 0710 0710 0710 0710 0710 0710	0710 0710 0710 0710 0710 0710 0710 0710	0710 0710 0710 0710 0710 0710 0710 0710	DX 17 - Sep - 19 002 17 002 27 002 27 002 27 002 27 002 27 002 27 002 27 002 28 003 38	102\$ 102\$ 102\$ 102\$ 102\$ 102\$ 102\$ 102\$	CLIBRTL.SRCJLIBFINCVT.B32;1 -26\$,	

** F

L1B\$\$F 1-006					B\$CVT 16-Sep-19 DX_DX 14-Sep-19		VAX-11 Bliss-32 V4.0-742 [LIBRTL.SRC]LIBFINCVT.B32;1	Page 26 (3)
	0710 0710 0710 0710 0710 0710 0710 0710	0710 0710 0710 0710 0710 0710 0710 0710	0710 0710 0710 0710 0710 0710 0710 0710	0710 0710 0710 0710 0710 0710 0710 06E7 0710	003E7 003EF 003FF 00407 0040F 0041F 0042F 0042F 0043F	1025- 1025- 1025- 1025- 1025- 1025- 1025- 1025- 1025- 1025-	65,- 265,- 265,- 265,- 265,- 265,- 265,-	
	0710 0710 06E7	0710 0710 0710	0710 0710 0710	0710 0710 0710	0043F 00447 0044F	102\$- 102\$-	265,- 265,- 265,- 265,- 265,- 265,- 265,- 265,- 265,-	
						102 \$- 102 \$-	26 \$,- 26 \$,-	
						1025- 1025- 1025- 1025- 1025- 1025- 1025- 1025- 1025- 1025- 1025- 1025- 1025- 1025- 1025- 1025- 1025- 1025- 1025- 1025-	265, - 265, - 265, - 265, - 265, - 265, - 265, - 265, - 265, -	
						1025- 1025- 1025- 1025- 1025- 1025- 1025-	65, - 65, - 265, - 265, - 265, - 265, -	

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5-0 F I B

Page 31 (3)

							102\$-26\$, - 102\$-26\$, -		
80	BE	OC	01 AE 75	DO 00457 D5 0045B 12 0045E	27\$:	MOVL TSTL BNEQ	99\$-26\$ #1, aleft_or_right_cvt turn 34\$	0844 0846	
01	51 50 B1	0C 04 04	AC AC	DO 00460 DO 00464		MOVL Movl	SRC_INFO, R1 SOURCE, RO	0848	
01		04	B0 66	9A 00468 11 0046D	204	MOVZBL BRB	a4(R0), a1(R1) 34\$	0839	
08	BE	ОС	01 AE	DO 0046F D5 00473	28≯:	MOVL TSTL	#1, aleft_or_right_cvt Turn	0855	
	51 50 B1	0 C 0 4	AE 5D AC	12 00476 00 00478		BNEQ MOVL	34\$ SRC_INFO, R1	0859	
01	B1	04	AC BO	00 0047C 3C 00480 11 00485		MOVL MOVZWL	SOURCE, RO 24(RO), 21(R1) 34\$	0830	
08	BE		B0 4E 02 57	DO 00487 11 0048B	29\$:	BRB MOVL BRB	#2 aLEFT_OR_RIGHT_CVT	: 0839 : 0866 : 0868	

LIB\$\$FIND_CVT_P LIB\$\$FIND_CVT_PATH for internal use of LIB\$CVT 16-Sep-1984 00:54:19 VAX-11 Bliss-32 V4.0-742 1-006 Deterministic finite Automata for LIB\$CVT_DX_DX 14-Sep-1984 12:38:50 [LIBRTL.SRC]LIBFINCVT.B32;1

LIB\$\$FIND_CVT_P LIB\$\$FIND_CVT_PATH 1-006 Deterministic Finite	for inter Automata	nal use for LIE	of S \$ CV	LIB /T_D	SCVT 1	K 1 6-Sep-1 4-Sep-1	984 00:54 984 12:38	4:19 8:50	VAX-11 Bliss-32 V4.0-742 CLIBRTL.SRCJLIBFINCVT.B32;1	Page 32 (3)
08 0000015C	BE 8f		01 56	D0	0048D 00491	30\$:	MOVL CMPL	#1, STÁ	ALEFT_OR_RIGHT_CVT	: 0877 : 0879
	6B	08 00	04 A8 AE 57	12 90 05	0048D 00491 00498 0049A 0049E 004A1	31\$:	BNEQ	8(S Tur	SRC_OR_DST), (SRC_OR_DST_INFO) RN	0881
01	51 50 B1	0C 04 04	AC AC BO 23	00 00 98	004A1 004A3 004A7 004AB		TSTL BNEQ MOVL MOVL CV1BL	39\$ SRC SOU a4(INFO, R1 JRCE, RO (RO), a1(R1)	0883
08 0000015D		•	01 56	11 D0 D1	004B0 004B2 004B6	32\$:	MOVL CMPL	#1.	aLEFT_OR_RIGHT_CVT ATE, #349	0839 0890 0892
	6 B	08 00	04 A8 AE 6C	12 90 05	004BD 004BF 004C3 004C6	33\$:	BNEQ MOVB TSTL RNEQ	8(S TUR 42\$	SRC_OR_DST), (SRC_OR_DST_INFO) RN	0894
01	51 50 B1	0C 04 04	AC BO 5D	DO DO	004C8 004CC		BNEQ MOVL MOVL CVTWL	SRC SOU 94 (INFO, R1 URCE, RO (RO), @1(R1)	0896
08 0000015E	BE 8f		5D 01 56 5F	D0 D1 13	004D5 004D7 004DB	34 \$: 35 \$:	BRB MOVL (MPL BEQL	STÁ	, alefi or_right_cvt Ate. #350	0839 0903 0905
08 0000015F	BE 8F		61 02 56	11 00 01	004E4 004E6 004EA 004F1 004F3	36 \$: 37 \$:	BRB MOVL CMPL	44\$ 45\$ #2, STA	aLEFT_OR_RIGHT_CVT TE, #351	0907 0916 0918
	6B	08 00	04 A8 AE 73	12 90 05	004F1 004F3 004F7 004FA	38 \$:	BNEQ MOVB TSTL BNEQ	38\$ 8(S TUR 48\$	SRC OR DST), (SRC OR DST INFO)	0920
	53 50 51 52 60	0C 01 04 04	AC AC AC	D0	004FC 00500	J7 4 .	MOVL MOVL MOVL	SRC 1(R SOU	INFO, R3 (3), RO JRCE, R1 (1), R2	0923
	51	04 04 04	62 A0	DO DO 9E	00504 00508 0050C 0050F		MOVL MOVL MOVAB	4(R (R2 4(R	R1), R2 2), (R0) R0), R1	0924
	61 60 61	04	A2 6B 60 61	18 D2	00517 00517 00519		MOVL BGEQ MCOML MCOML CMPL BNEQ	40% 49% (R0	(2), (RI))), (RO)) (R1)	0926 0929 0930 0932
FFFFFFF	8F		60 06 60	D1 12 04	0050F 00513 00517 00519 0051C 00526 00528		CMPL BNEQ CLRL INCL	(R) 40\$ (R));	• 1
07	A3		61 02 60	11	00324	40 \$:	INCL BRB INCL BISB2 BRB	(R1 41\$ (R0	(1), R2 (1), (R0) (0), R1 (2), (R1) (), (R0) (), (R1) (), #-1	0935 0936 0932 0939 0941 0839 0950
08 00000160			7C 03 56 04	11 DO D1	00534 00536 0053A	42 \$: 43 \$:	BRB MOVL CMPL		aLEFT_OR_RIGHT_CVT	0839 0950 0952
	6B	80 00	04 A8 AE 70	12 90 05	00530 00536 00536 00538 00541 00547 00544	44 \$: 45 \$:	BNEQ MOVB TSTL	45\$ 8(S TUR 55\$	SRC_OR_DST), (SRC_OR_DST_INFO)	0954
01	51 50 B1	0C 04 04	AC AC BO	טע	0054C 00550 00554		BNEQ MOVL MOVL MOVL	50U 34(INFO, R1 JRCE, RO (RO), a1(R1)	0956

LIBSSFIND_CVT_P LIBSSFIND_CVT_PATH 1 1-006 Deterministic finite	or internal use o Automata for LIB\$	L 1 of LIB\$CVT 16-Sep-1984 00:54 CVT_DX_DX 14-Sep-1984 12:38	:19 VAX-11 Bliss-32 V4.0-742 :50 [LIBRTL.SRC]LIBFINCVT.B32;1	Page 33 (3)
08 00000161	BE 0 8F 5 6B 08 A 0C A	7D 11 00559 BRB 03 D0 0055B 46\$: MOVL 66 D1 0055F CMPL 04 12 00566 BNEQ	56\$ #3. aleft_or_right_cvt state, #353 47\$: 0839 : 0963 : 0965
	6B 08 Åi	AB 90 00568 MOVB AE D5 0056C 47\$: TSTL 57 12 0056F 48\$: BNEQ	8(SRC_OR_DST), (SRC_OR_DST_INFO) TURN 56\$	0967
	50 OC A 51 O1 A 50 O4 A 50 O4 A 61 S BE SF 6B O8 A 6C A	7 12 0056F 48\$: BNEQ AC DO 00571 MOVL AO DO 00575 MOVL AC DO 00579 MOVL AO DO 0057D MOVL BO 7D 00581 MOVQ BO 7D 00584 49\$: BRB	SRC_INFO, RO 1(RO), R1 SOURCE, RO 4(RO), RO (RO), (R1)	0970
08 00000171	BE 06 8F 50	66 D1 0058A CMPL	56\$ #4, aleft_or_right_cvt STATE, #369 51\$: 0839 : 0978 : 0980
	6B 08 Å 0C AI 53 0C A	AB 90 00593 MOVB AE D5 00597 51\$: TSTL BA 12 0059A BNEQ AC D0 0059C MOVL	B(SRC_OR_DST), (SRC_OR_DST_INFO) TURN	0982
	53 OC A 52 O4 A 51 O1 A 50 O4 A 00000000G O 61 BE O6 8F OC A 51 O4 A 50 OC A 51 O4 A 50 OC A	12 00591 BNEQ 18 90 00593 MOVB 18 D5 00597 51\$: TSTL 19 D6 00590 MOVL 10 D0 00540 MOVL 10 D0 00544 MOVL 10 D0 00546 MOVL 11 D0 00546 MOVL 12 D0 00546 JSB	SRC_INFO, R3 SOURCE, R2 1(R3), R1 4(R2), R0 LIB\$\$CVT_CVTGH_R1 62\$ #4, aleft_or_right_cvt STATE, #370 54\$	
08 00006172	BE 06 8F 56	00 16 005AC JSB 50 11 005B2 52\$: BRB 04 00 005B4 53\$: MOVL 66 01 005B8 CMPL 04 12 005BF BNEQ	#4, aleft_or_right_cvt STATE, #370 54\$	0839 0988 0990
	6B 08 Åi 0C Ai 6i	AB 90 005C1 MOVB AE D5 005C5 54\$: TSTL 5D 12 005C8 55\$: BNEQ AC D0 005CA MOVL	TURN 65\$	0992
01 B0 04	۲.	.7 11 005D8 56\$: RRR	SOURCE, R1 SRC_INFO, R0 #16, 04(R1), 01(R0) 62\$	0839
08 05 00000164	BE 00 AB 65 8F 56 6B 08 A	06 DO 005DA 57\$: MOVL 58 BO 005DE MOVW 66 D1 005E2 CMPL 04 12 005E9 BNEQ	62\$ %6, aleft_or_right_cvt (SRC_or_DST), 5(SRC_or_DST_info) STATE, #356 58\$ 8(SRC_or_DST), (SRC_or_DST_info)	0839 0998 0999 1001
08 00000165	6B 08 AF 01FF 01FF 01FF 01FF 01FF 01FF 01FF 0	0 31 003E1 309. BNW	8(SRC_OR_DST), (SRC_OR_DST_INFO) 97\$ #5, aleft_or_right_cvt STATE, #357 60\$ 8(SRC_OR_DST), (SRC_OR_DST_INFO)	1003 1013 1015
	BE 00 8F 50 6B 08 A 0C A	04 12 005FD BNEQ NB 90 005FF MOVB NE D5 00603 60\$: TSTL SB 12 00606 61\$: BNEQ	71 \$	1017
05 05 AO 0000000G 00 04	50 OC A	AC DO 00608 MOVL IF BO 0060C MOVW	\$RC_INFO, RO #31, 5(RO) \$OURCE, R1 (R1), @4(R1), LIB\$AB_CVTTP_U, 5(RO), @1(1020 1021 (RO) 1022
08 00000166	01 B	0061F 37 11 00621 62\$: BRB 05 D0 00623 63\$: MOVL	68\$ #5. aleft or right cvt	0839 1029 1031
00000166	6B 08 A	05 DO 00623 63\$: MOVL 66 D1 00627 CMPL 04 12 0062E BNEQ 08 90 00630 MOVB	STATE, #358 64\$ 8(SRC_OR_DST), (SRC_OR_DST_INFO)	; 1031

LIB\$\$FIND	_CVT_P	LIB\$\$FIN Determin	ID_CV	/T_PATH for first	or inte Automat	rnal use of a for LIB\$C\	LIB T_D	\$CVT 1 X_DX 1	M 1 6-Sep- 4-Sep-	1984 00:54: 1984 12:38:	:19 VAX-11 Bliss-32 V4.0-742 F :50 [LIBRTL.SRC]LIBFINCVT.B32;1	Page 34 (3)
				05	50 A0 51	0C AE 76 0C AC 1F 04 AC 61	D5 12 D0 B0 B5 12	00639 0063D 00641 00645	64 \$: 65 \$:	TSTL BNEQ MOVL MOVU MOVL TSTW BNEQ	TURN 73\$ SRC_INFO, RO #31, 5(RO) SOURCE, R1 (R1) 448	; 1033 : 1036 : 1039
01	80	05	AO	04 08 00000167	52 B1 BE 8F	04 505 61 52 65 65 65 65 65	D4 11 30 09 11 00 01	00649 0064B 0064D 00652 0065A 0065C	67 \$:	CLRL BRB MOVZWL DECL CVTSP BRB MOVL CMPL	66\$ R2 67\$ (R1), R2 R2 R2, a4(R1), 5(R0), a1(R0) 75\$ #5, aleft_or_right_cvt STATE, #359	1040 0839 1048 1050
00000000	00		00	05 04	6B 5A 59 A9 BA AE	08 A8 0C AE 6A 04 AC 0C AC	12 90 12 00 100 00 00 00 00	00669 0066D 00670 00672 00676	70 \$: 71 \$:	BNEQ MOVB TSTL BNEQ MOVL MOVL MOVW MOVTC	70\$ 8(SRC_OR_DST), (SRC_OR_DST_INFO) TURN 78\$ SOURCE, R10 SRC_INFO, R9 #31, 5(R9) aSOURCE, a4(R10), #0, LIB\$AB_CVT_O_U, -	1052 1056 1058 1059
05		00000006	00	04 10 10 4A 52	AE AE 51 8F 8F	04 BC 04 BC 04 BC 01 B9 04 BA 51	26 9A 91 1F 91	00689 0068D 00699		CVTTP MOVZBL CMPB BLSSU CMPB BLEQU	asource, Temp_Bur asource, Temp_Bur, LIB\$AB_CVTTP_u, 5(R9), - a1(R9) a4(R10), R1 R1, #74 72\$: 1
01 E	1940		04	70	8F 50	06 51 70 05 A9 02 000000G0041 9E	1B 91 12 30	006A9 006AB 006AF 006B1 006B5 006B8	72\$: 73\$: 74\$:	CMPB BNEQ MOVZWL	R1, #82 74\$ R1, #125 83\$ 5(R9), R0 #2, R0 LIB\$AB_CVTTP_O[R1] a(SP)+, #0, #4, a1(R9)[R0]	1065 1067 1068
	,,40			08 00000168	BE 8F 6B	74 05 56 04 08 A8 0C AE 74	11 00 01 12 90	006C6 006C8 006CC	77\$:	BRB MOVL CMPL BNEQ MOVB TSTL	84\$ #5, alest_or_right_cvt STATE, #360 77\$ 8(SRC_or_dst), (SRC_or_dst_info) TURN 87\$	0839 1076 1078
					50 5A	04 AC 60 04 5A 05 60 5A	DD5 12 11 13 07	006DE 006E2 006E4 006E6		MOVL TSTW BNEQ CLRL BRB MOVZWI	SOURCE, RO (RO) 79\$ SOU_LEN 80\$	1090
01	В0	11 05	AE AO	10 04 05 10	AE B0 50 A0 AE	04 B04A 5A 0C AC 1F 5A 60	90 28 00 80	UUOET	80\$:	MOVB MOVC3 MOVL MOVW CVTSP BRB	SOU LEN a4(RO)[SOU_LEN], TEMP_BUF SOU_LEN, a4(RO), TEMP_BUF+1 SRC_INFO, RO #31, 5(RO) SOU_LEN, TEMP_BUF, 5(RO), a1(RO) 88\$	1093 1094 1095 1096 0839

FIND_	CVT_P LIB\$\$FIN Determin	D_CVT_PATH f istic Finite	or inter Automata	hal use for LI	of B\$CV	LIB'	SCVT 1 X_DX 1	6-Sep-1 4-Sep-1	984 00:54 984 12:38		Page
		08 00000169	BE 8f		05 56	D0 D1	0070D 00711	81\$:	MOVL CMPL	#5, aleft_or_right_cvt State, #361 82\$; 11 ; 11
			6B	08	04 A8 AE 70	12 90	00718		BNEQ MOVB	82\$ 8(SRC_OR_DST), (SRC_OR_DST_INFO)	
			00	ŎČ	AE 70	05 12	0071E 00721	825:	TSTL BNEQ	TURN 91\$	11
		0.5	50 A 0	00	AC	DQ	00753	039:	MOVL	SRC_INFO, RO	1
0.5		05	51	04	AC 61	B0 00	0072B		MOVW MOVL	ŚŔĊ_INFO, RO #31, 5(RÓ) SOURCE, R1 (R1), â4(R1), LIB\$AB_CVTTP_O, 5(RO), a1(RO)	1
05	A0 00000000G	00 04	B1	01	B0 61	26	0073A		CVTTP		
		08	BE 8F		61 05	11 00			BRB MOVL	91\$ #5, aleft_or_right_cvt	; 0
		0000016A	8F		56 04	D1 12	00742 00749		CMPL	STATE, #362 86\$	1
			6B	08 00	ÑÃ AE 4B	90 05	0074B		BNEQ MOVB TSTL	8(SRC_OR_DST), (SRC_OR_DST_INFO) TURN	. 1
			50	0 C	4B AC	12 00			BNEQ MOVL	918 SRC_INFO, RO	1
		05	50 A 0 51	04	1 F	BO	00758		MOVW	#51. 5(RO)	•
05	AO 00000000G	00 04	B1		AC 61	D0 26	00760		MOVL CVTTP	SOURCE, RÍ (R1), a4(R1), LIB\$AB_CVTTP_Z, 5(R0), a1(R0)) ; 1
		00	2.5	01	B0 30	11	0076B 0076D		BRB	91\$; 9
		08 0000016B	BE 8f		56	D0	00773		MOVL CMPL	#5, aleft_or_right_cvt state, #363	
			68	08	04 A8	12 90	00770		BNEQ MOVB	90\$ 8(SRC_OR_DST), (SRC_OR_DST_INFO)	;
				0 C	Ă8 AE 77	D5 12	00780 00783	90\$:	TSTL BNEQ	TIRN	1
10	AE	1F 04	50 B0	04	AC 60	00 80	00785		MOVL CVTPS	98\$ SOURCE, RO (RO), a 4(RO), #31, TEMP_BUF	1
01	B4	_	B0 54 AF	O C	AC 1 E	00 09	00790		MOVL CVTSP	SRC_INFO, R4 #31, TEMP_BUF, #31, @1(R4)	1
01	64	1F 10 05	AE A4		1F	BÓ	0079B		MOVW	#31, 5(R4)	1
		08 05	BE AB		79 06	ρò	0079F 007A1	92 \$:	BRB MOVL	100\$ #6, aleft_or_right_cvt	
					06 68 3F	11	007A5 007A9	070	MOVW BRB	(SRC_OR_DST), 5(SRC_OR_DST_INFO) 97\$	
		08 00ú0riff	BE 8f	00	06 88	D1	007AB 007AF 007B7	935:	MOVL CMPL	<pre>#6, aleft_or_right_cvt 12(src_or_dst), #65535</pre>	: 1
			01	08	23 A8	14 91	007B9		BGTR CMPB	95 5 11(SRC_OR_DST), #1	;
			01		1D 68	12 B1	007Bf		BNEQ CMPW	95\$ (SRC_OR_DST), #1	; 1
		0000017E	8 F		18 56	12 D1	007C2		BNEQ CMPL	95\$ STATE, #382	; 1
		0000018A	8F		09 56	13 D1	007CB 007CD		BEQL CMPL	948 STATE, #394	
		0000010A	01	14	0B A8	12 D1	007D4		BNEQ CMPL	96\$ 20(SRC_OR_DST), #1	1
				1 🕶	05	13	007D6 007DA		BEQL	96\$	•
			50	^ 0	07 62	CE 11	007DF		MNEGL BRB MOVE	96\$ #7 STATUS 105\$ 84505 OR DST INFO	
		05	6B AB	80 00	8A 8A	ΑÑ	007E1 007E5 007EA	AOD:	MOVB Movw	8(SRC_OR_DST), (SRC_OR_DST_INFO) 12(SRC_OR_DST), 5(SRC_OR_DST_INFO)	1 1

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LIB$$FIND_CVT_P LIB$$FIND_CVT_PATH for internal use of LIB$CVT 16-Sep-1984 00:54:19 1-006 Deterministic Finite Automata for LIB$CVT_DX_DX 14-Sep-1984 12:38:50
                                                                                                                        VAX-11 Bliss-32 V4.0-742 
CLIBRTL.SRCJLIBFINCVT.B32:1
                                                                                                                                                                           Page 36 (3)
                                                                         45
AC
                                                                              12 007ED
DO 007EF
                                                                                                      BNEQ
                                                                                  007EF
007F3
                                                      51
50
                                                                                                                 SRC_INFO, R1
SOURCE, RO
4(RO), 1(R1)
                                                                                                      MOVL
                                                                                                                                                                                1185
                                                                  04
04
                                                                         AC
                                                                               D0
                                                                                                      MOVL
                                                                         ÃÕ
36
                                               01
                                                      A1
                                                                                  007F7
                                                                               DO
                                                                                                      MOVL
                                                                                  007FC 98$:
007FE 99$:
00802
                                                                               11
                                                                                                      BRB
                                                                                                                 103$
                                                                                                                                                                                0839
                                                                         06
AE5
AC
AC
B1
                                               08
                                                      BE
                                                                              D0
                                                                                                      MOVL
                                                                                                                 #6, aLEFT_OR_RIGHT_CVT
                                                                                                                                                                                1192
                                                                  00
                                                                                                                 TURN
                                                                                                      TSTL
                                                                                                                                                                                1194
                                                                                   00805
                                                                                                                 101$
                                                                                                      BNEQ
                                                                                                                 SRC INFO, RO
SOURCE, R1
#2, 4(R1), 1(RO)
a4(R1), 5(RO)
                                                      50
                                                                                  00807
                                                                               DŌ
                                                                                                      MOVL
                                                                                                                                                                                1197
                                                      51
                                                                                  0080B
                                                                  04
                                                                               DŌ
                                                                                                      MOVL
                            01
                                               04
                                  A0
                                                      A1
                                                                                   0080F
                                                                                                      ADDL3
                                                                                                                                                                                1198
1194
1201
                                                      A0
                                                                  04
                                                                                  00815
                                                                                                      MOVW
                                                                         18
                                                                               11
                                                                                   0081A 100$:
                                                                                                      BRB
                                                                                                                 103$
                                                                                                                 DST_INFO, RO
aDESTINATION, 5(RO)
                                                      50
                                                                         AČ
                                                                                  00810 1015:
                                                                              D0
                                                                                                      MOVL
                                               05
                                                      ÃŎ
                                                                  08
                                                                         BČ
                                                                                  00820
                                                                               B0
                                                                                                      MOVW
                                                                                                                 103$
                                                                               11
                                                                                  00825
                                                                                                      BRB
                                                                         OD.
                                                          0000000G
                                                                                  00827 1025:
                                                                                                                 #LIBS FATERRLIB
#1, LIBSSTOP
                                                                              DD
                                                                                                      PUSHL
                                                                                                                                                                                1206
                                       0000000G
                                                      00
                                                                                                      CALLS
                                                                         01
                                                                                  0082D
                                                                              FB
                                                                         AE
AE
03
                                                                                  00834 103$:
                                                                                                                 TURN
                                                                                                      INCL
                                                                              D6
                                                                                                                                                                                0748
                                                      03
                                                                  ŎČ
                                                                                  00837
                                                                                                      CMPL
                                                                              D1
                                                                                                                 TURN, #3
                                                                                  0083B
                                                                                                      BGTRU
                                                                                                                 104$
                                                                              31
                                                                      F7C8
                                                                                  0083D
                                                                                                      BRW
                                                                                                                 15
                                                      50
                                                                                  00840 104$:
                                                                                                      MNEGL
                                                                                                                 #1, STATUS
                                                                                                                 #6, LEFT CVT, R1
RIGHT CVT, R1
-6(R1), aCVT_PATH
                                  51
                                               34
                                                      AE
                                                                                  00843 105$:
                                                                                                      MULL 3
                                                                         06
                                                                                                                                                                               1217
                                                                                                      ADDL2
                                                                         AE
                                                                               ĊO
                                                                                  00848
                                               14
                                                      BC
                                                                  FA
                                                                         AT
                                                                                  0084C
                                                                                                      MOVAB
                                                                                  00851
                                                                                                                                                                                1219
                                                                                                      RET
; Routine Size: 2130 bytes,
                                                                _LIB$CODE + 00F3
                                            Routine Base:
: 1128
: 1129
: 1130
: 1131
                      1221
                              1 END
                                                                                                   ! End of module LIB$$FIND_CVT_PATH.
                      1223
                              0 ELUDOM
                                                      PSECT SUMMARY
                                             Bytes
                                                                                      Attributes
           Name
    _L1B$CODE
                                                   2373 NOVEC, NOWRT,
                                                                              RD , EXE, SHR, LCL, REL, CON, PIC, ALIGN(2)
```

Symbols ----

Loaded

35

Percent

Processing

00:00.8

Time

Pages

581

Mapped

Library Statistics

Total

9776

file

_\$255\$DUA28:[SYSLIB]STARLET.L32;1

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COMMAND QUALIFIERS

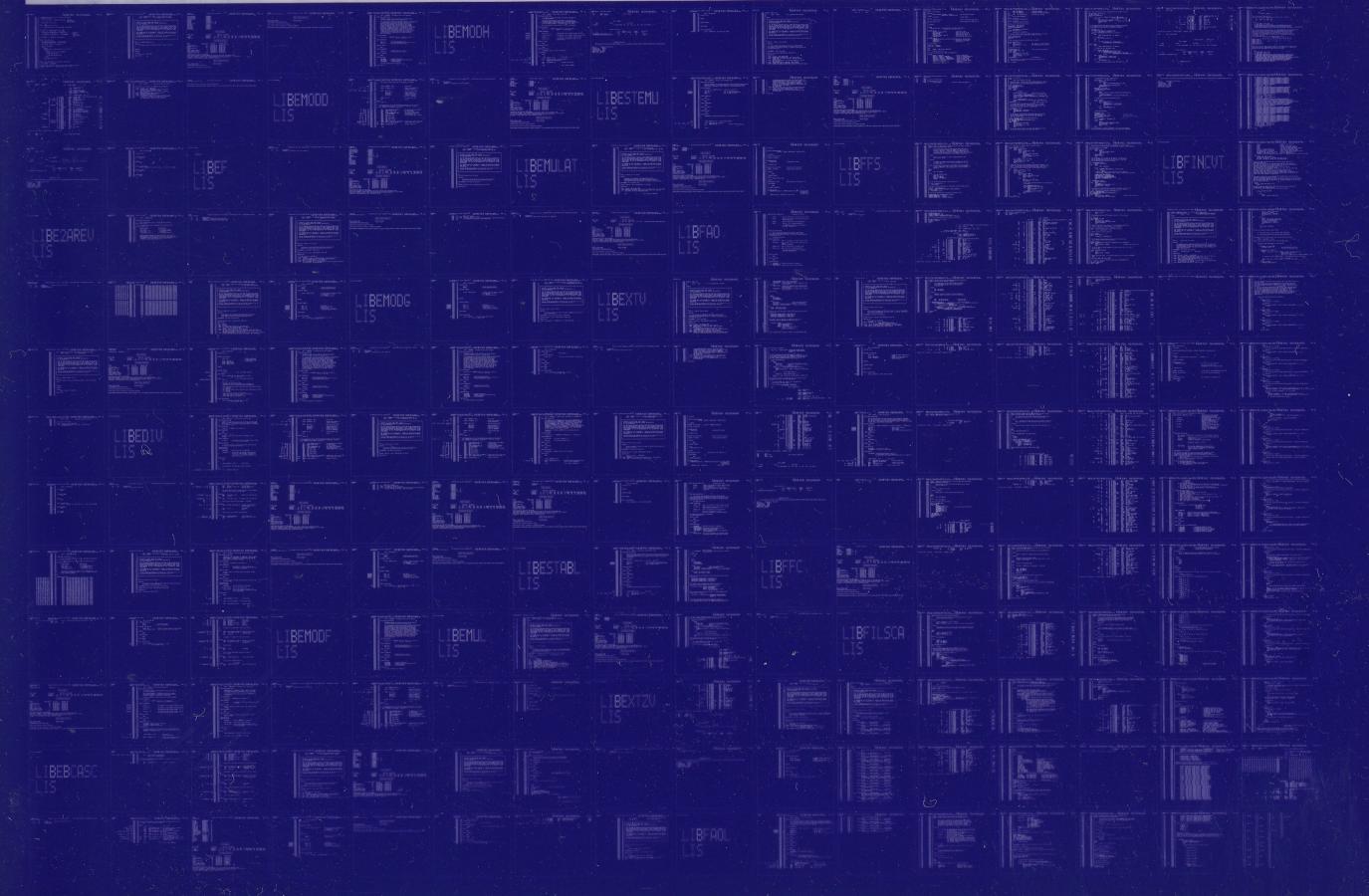
BLISS/CHECK=(FIELD, INITIAL, OPTIMIZE)/NOTRACE/LIS=LIS\$:LIBFINCVT/OBJ=OBJ\$:LIBFINCVT MSRC\$:LIBFINCVT/UPDATE=(ENH\$:LIBFINCVT

; Size: 2130 code + 243 data bytes ; Run Time: 00:24.0 ; Elapsed Time: 01:37.9 ; Lines/CPU Min: 3057

Run Time: 00:24.0 Elapsed Time: 01:37.9 Lines/CPU Min: 3057 Lexemes/CPU-Min: 25740 Memory Used: 433 pages Compilation Complete

0206 AH-BT13A-SE

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